

COMMISSIONER OF PATENTS AND TRADEMARKS Washington, D.C. 20231

APPLICATION NO.	FILING DATE	FIRST NAMED INVENTOR			ATTORNEY DOCKET NO.	
09/303,424	05/03/99	LEMILAINEN		J	017.37066X00	
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020457 TMU2/U911 ANTONELLI TERRY STOUT AND KRAUS				TESFAMARIAM, M		
SUITE 1800		^		ART UNIT	PAPER NUMBER	
1300 NORTH SEVENTEENTH STREET ARLINGTON VA 22209				2162	9	
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Please find below and/or attached an Office communication concerning this application or proceeding.

Commissioner of Patents and Trademarks

Office Action Summary

Application No. 09/303,424 Applic

JUSSI LEMILAINEN et al

Art Unit



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- Th MAILING DATE of this communication appears			2162	
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A SHORTENED STATUTORY PERIOD FOR REPLY IS SE	T TO EXPIRE	MON	TH(S) FROM	
- Extensions of time may be available under the provisions of 37 CFR 1.1 after SIX (6) MONTHS from the mailing date of this communication. - If the period for reply specified above is less than thirty (30) days, a repl be considered timely. - If NO period for reply is specified above, the maximum statutory period communication. - Failure to reply within the set or extended period for a large of the set of the set of extended period for a large of the set of the set of extended period for a large of the set of extended period for a large of the set of the set of extended period for a large of the set of the set of extended period for a large of the set of the	y within the statu will apply and will	tory minimum of thirty (3) expire SIX (6) MONTHS	0) days will 6 from the mailing da	
earned patent term adjustment. See 37 CFR 1.704(b)	date of this con	nmunication, even if time	y filed, may reduce a	: 133). :ny
Status				
1) X Responsive to communication(s) filed on <u>Sep 24, 19</u>	999			
2a) ☐ This action is FINAL . 2b) ☒ This actio	n is non-final.		· · · · · · · · · · · · · · · · · · ·	
3) Since this application is in condition for allowance exceeds in accordance with the practice under Expar	cept for forma	I matters, prosecutio	n as to the merit	s is
Disposition of Claims				
4) X Claim(s) <u>1-21</u> 4a) Of the above claim(s)			io (o o o o o o o	
4a) Of the above, claim(s)			is/are pendin	g in the applica
5)			_ is/are withdraw	n from considera
5) ☐ Claim(s)			is/are a	allowed.
6) ☑ Claim(s) <u>1-21</u> 7) □ Claim(s)			is/are r	ejected.
7)			is/are o	bjected to.
8) ☐ ClaimsApplication Papers		are subject to r	estriction and/or	election requirem
9) The specification is objected to by the Examiner.				
10) The drawing(s) filed on				
10) The drawing(s) filed on is/are	objected to b	y the Examiner.		
 11) ☐ The proposed drawing correction filed on	is	∷ a∏ approved b)	disapproved.	
Priority under 35 U.S.C. § 119				
13) ☐ Acknowledgement is made of a claim for foreign priority a) ☐ All b) ☐ Some* c) ☐None of:	under 35 U.S	S.C. § 119(a)-(d).		
Certified copies of the priority documents have been	am manakarat			
2. Certified copies of the priority documents have bee	n received.	Ammliantina		
3. Upples of the certified copies of the priority documents.		_		·
application from the International Bureau (PC *See the attached detailed Office action for a list of the certification.	T Rule 17.2(a)).	itional Stage	
14) Acknowledgement is made of a claim for domestic priorit	Tied copies no	ot received.		j
	y under 35 U.	.S.C. § 119(e).		
Attachment(s)				
		nary (PTO-413) Paper No(s)		
		al Patent Application (PTO-15	52)	
20)	Other:			

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DETAILED ACTION

Claim Rejections - 35 USC § 103

1. The following is a quotation of 35 U.S.C. 103(a) which forms the basis for all obviousness rejections set forth in this Office action:

(a) A patent may not be obtained though the invention is not identically disclosed or described as set forth in section 102 of this title, if the differences between the subject matter sought to be patented and the prior art are such that the subject matter as a whole would have been obvious at the time the invention was made to a person having ordinary skill in the art to which said subject matter pertains. Patentability shall not be negatived by the manner in which the invention was made.

This application currently names joint inventors. In considering patentability of the claims under 35 U.S.C. 103(a), the examiner presumes that the subject matter of the various claims was commonly owned at the time any inventions covered therein were made absent any evidence to the contrary. Applicant is advised of the obligation under 37 CFR 1.56 to point out the inventor and invention dates of each claim that was not commonly owned at the time a later invention was made in order for the examiner to consider the applicability of 35 U.S.C. 103© and potential 35 U.S.C. 102(f) or (g) prior art under 35 U.S.C. 103(a).

2. Claim 1, 13, 21 are rejected under 35 U.S.C. 103(a) as being unpatentable over Inoue et al, 6167513 in view of Yoon et al, 6173407.

As per claim 1, Inoue et al disclose in a method of obtaining connection to a packet data network comprising:

inputting a user request to a first network which requests that the user be authorized for connection to the packet data network through a second network; See fig 1, fig 30, fig 42, col 35, lines, 20-27, 39-43. He also discloses in transmitting from the first network to the second network the user request and an authorization. See fig 1, fig 30, fig 42, col 5, lines 7-10, 44-47, col 6, lines 34-40, col 35, lines, 20-27, 39-43. However, he specifically fails to disclose in an authorization of payment. Yoon et al discloses in an authorization of payment. See the abstract, figure 1, figure 2, figure 3, fig 6, fig 7a-7b, fig 8, col 1, lines 6-11, col 3, lines 37-42, 64-67, col 6, lines 54-60, col 9, lines 26-33. Therefore, it would have been obvious to one of ordinary skill in the art at the time the invention was made to modify Inoue's such that it will use authorization of payment. This is because it would improve Inoue's system to have secured payment system.

Inoue et al also discloses in transmitting from the second network to the first network authentication information granting the user authentication to obtain connection through the second network to the packet data network; See fig 1, fig 30, fig 42, fig 45.

He also discloses in transmitting the authentication information from the first network to the user which informs the user that authentication to obtain connection to the packet data network has been obtained. See fig 1, fig 30, fig 42, fig 45.

As per claim 13, Inoue et al disclose in inputting a user request to a first network which requests that the user be authorized for connection to the packet data network through a second network; See fig 1, fig 30, fig 42, col 35, lines, 20-27, 39-43. He also discloses in transmitting from the first network to the second network the user request and an authorization. See fig 1, fig 30, fig 42, col 5, lines 7-10, 44-47, col 6, lines 34-40, col 35, lines, 20-27, 39-43. However, he specifically fails to disclose in an authorization of payment. Youn et al discloses in an authorization of payment. See the abstract, figure 1, figure 2, figure 3, fig 6, fig 7a-7b, fig 8, col 1, lines 6-11, col 3, lines 37-42, 64-67, col 6, lines 54-60, col 9, lines 26-33. Therefore, it would have been obvious to one of ordinary skill in the art at the time the invention was made to modify Inoue's such that it will use authorization of payment. This is because it would improve Inoue's system to have secured payment system.

As per claim 21, Inoue et al disclose in a system comprising:

a user; a first network which is connectable to the user; a second network which is connectable to the first network and to the user, and a packet data network which is connectable to the second network; See fig 1, fig 30, fig 42, col 35, lines, 20-27, 39-43.

He also discloses in and wherein the first network, in response to a user request to the first network that the user be authorized for connection to the packet data network through the second network, transmits to the second network the user request and an authorization. See fig 1, fig 30, fig 42, col 5, lines 7-10, 44-47, col 6, lines 34-40, col 35, lines, 20-27, 39-43. However, he specifically fails to disclose in an authorization of payment.

Yoon et al discloses in an authorization of payment. See the abstract, figure 1, figure 2, figure 3, fig 6, fig 7a-7b, fig 8, col 1, lines 6-11, col 3, lines 37-42, 64-67, col 6, lines 54-60. Therefore, it would have been obvious to one of ordinary skill in the art at the time the invention was made to modify Inoue's such that it will use authorization of payment. This is because it would improve Inoue's system to have secured payment system.

He also discloses in transmitting from the second network to the first network authentication information granting the user authentication to obtain connection through the second network to the packet data network; See fig 1, fig 30, fig 42, fig 45.

He also discloses in transmitting the authentication information from the first network to the user which informs the user that authentication to obtain connection to the packet data network has been obtained. See fig 1, fig 30, fig 42, fig 45.

3. Claim 2-3, 7-8, 14, 15 are rejected under 35 U.S.C. 103(a) as being unpatentable over Inoue et al, 6167513 in view of Yoon et al, 6173407 as applied to claim 1 above, and further in view of Chan 5659541.

As per claim 2, Inoue et al, disclose in inputting a user request to a first network which requests that the user be authorized for connection to the packet data network through a second network; See fig 1, fig 30, fig 42, col 35, lines, 20-27, 39-43. He also discloses in transmitting from the first network to the second network the user request and an authorization. See fig 1, fig 30, fig 42, col 5, lines 7-10, 44-47, col 6, lines 34-40, col 35, lines, 20-27, 39-43.

However, he fails specifically to disclose in a quantification of connectivity which the user requests to the packet data network. Chan discloses in quantification of connectivity which the user requests to the packet data network. See col 1, lines 17-24. Therefore, it would have been obvious to one of ordinary skill in the art at the time the invention was made to modify Inoue's system such that it will use quantification process. This is because it would improve Inoue's system to have high intensity level of connectivity.

As per claim 3, Inoue et al, disclose in inputting a user request to a first network which requests that the user be authorized for connection to the packet data network through a second network; See fig 1, fig 30, fig 42, col 35, lines, 20-27, 39-43. He also discloses in transmitting from the first network to the second network the user request and an authorization. See fig 1, fig 30, fig 42, col 5, lines 7-10, 44-47, col 6, lines 34-40, col 35, lines, 20-27, 39-43.

However, he fails specifically to disclose in the quantification comprises at least one service with each service unit being encoded with a random number. Chan discloses in the quantification comprises at least one service with each service unit being encoded with a random number. See col 1, lines 17-30. Therefore, it would have been obvious to one of ordinary skill in the art at the time the invention was made to modify Inoue's system such that it will use quantification in a random number. This is because it would improve Inoue's system to have high random level of connectivity.

As per claim 7, Inoue et al disclose in a user; a first network which is connectable to the user; a second network which is connectable to the first network and to the user; and a packet data

network which is connectable to the second network; See fig 1, fig 30, fig 42, col 35, lines, 20-27, 39-43. However, he fails specifically to disclose in the authentication information comprises a shared key which may be used to create secure communications between the user and the packet data network. Michel Mouly et al disclose in the authentication information comprises a shared key which may be used to create secure communications between the user and the packet data network. See Page 477-479, 483. Therefore, it would have been obvious to one of ordinary skill in the art at the time the invention was made to modify Inoue's system such that it will use a shared key. This is because it would improve Inoue's system to have secured atmosphere between the user and the network.

As per claim 8, Inoue et al disclose in transmitting from the first network to the second network the user request and an authorization. See fig 1, fig 30, fig 42, col 5, lines 7-10, 44-47, col 6, lines 34-40, col 35, lines, 20-27, 39-43. However, he fails specifically to disclose in a subscriber identification module SIM comprising a number n of service 4 units with each service unit comprising a different random access number uniquely identifying each service unit, a signed response SRES and the shared key Kc. Michel Mouly et al disclose in authentication information is a subscriber identification module SIM comprising a number n of service 4 units with each service unit comprising a different random 5 access number uniquely identifying each service unit, 6 a signed response SRES and the shared key Kc. See Page 464-465, 482, 485-486, 488. Therefore, it would have been obvious to one of ordinary skill in the art at the time the

invention was made to modify Inoue's system such that it will use a shared key. This is because it would improve Inoue's system to have secured atmosphere between the user and the network. As per claim 14, Inoue et al disclose in inputting a user request to a first network which requests that the user be authorized for connection to the packet data network through a second network; See fig 1, fig 30, fig 42, col 35, lines, 20-27, 39-43. He also discloses in transmitting from the first network to the second network the user request and an authorization. See fig 1, fig 30, fig 42, col 5, lines 7-10, 44-47, col 6, lines 34-40, col 35, lines, 20-27, 39-43. However, he specifically fails to disclose in an authorization of payment. Youn et al discloses in an authorization of payment. See the abstract, figure 1, figure 2, figure 3, fig 6, fig 7a-7b, fig 8, col 1, lines 6-11, col 3, lines 37-42, 64-67, col 6, lines 54-60, col 9, lines 26-33. Therefore, it would have been obvious to one of ordinary skill in the art at the time the invention was made to modify Inoue's such that it will use authorization of payment. This is because it would improve Inoue's system to have secured payment system.

As per claim 15, Inoue et al disclose in inputting a user request to a first network which requests that the user be authorized for connection to the packet data network through a second network; See fig 1, fig 30, fig 42, col 35, lines, 20-27, 39-43. He also discloses in transmitting from the first network to the second network the user request and an authorization. See fig 1, fig 30, fig 42, col 5, lines 7-10, 44-47, col 6, lines 34-40, col 35, lines, 20-27, 39-43. However, he specifically fails to disclose in an authorization of payment. Youn et al discloses in an authorization of payment.

See the abstract, figure 1, figure 2, figure 3, fig 6, fig 7a-7b, fig 8, col 1, lines 6-11, col 3, lines 37-42, 64-67, col 6, lines 54-60, col 9, lines 26-33. Therefore, it would have been obvious to one of ordinary skill in the art at the time the invention was made to modify Inoue's such that it will use authorization of payment. This is because it would improve Inoue's system to have secured payment system.

4. Claims 4, 9, 16 are rejected under 35 U.S.C. 103(a) as being unpatentable over Inoue et al, 6167513 in view of Yoon et al, 6173407 and Chan, 5659541 as applied to claim 3 above, and further in view of Mouly.

As per claim 4, Inoue et al disclose in a user; a first network which is connectable to the user; a second network which is connectable to the first network and to the user; and a packet data network which is connectable to the second network; See fig 1, fig 30, fig 42, col 35, lines, 20-27, 39-43. However, he fails specifically to disclose in each service unit is encoded with a different random number. Michel Mouly et al disclose in each service unit is encoded with a different random number. See section 7.2.2.1. on page 478, fig 7.7 on page 479, Page 483, fig 7.9. Therefore, it would have been obvious to one of ordinary skill in the art at the time the invention was made to modify Inoue's system such that it will use random number. This is because it would improve Inoue's system to use encoding process with different random number to protect an intruder from invading the network system.

As per claim 9, Inoue et al, disclose in inputting a user request to a first network which requests that the user be authorized for connection to the packet data network through a second network; See fig 1, fig 30, fig 42, col 35, lines, 20-27, 39-43. He also discloses in transmitting from the first network to the second network the user request and an authorization. See fig 1, fig 30, fig 42, col 5, lines 7-10, 44-47, col 6, lines 34-40, col 35, lines, 20-27, 39-43.

However, he fails specifically to disclose in the authentication information comprises a shared key which may be used to create secure communications between the user and the packet data network. Michel Mouly et al disclose in the authentication information comprises a shared key which may be used to create secure communications between the user and the packet data network. See Page 477-479, 483. Therefore, it would have been obvious to one of ordinary skill in the art at the time the invention was made to modify Inoue's system such that it will use a shared key. This is because it would improve Inoue's system to have secured atmosphere between the user and the network.

As per claim 16, Inoue et al disclose in inputting a user request to a first network which requests that the user be authorized for connection to the packet data network through a second network; See fig 1, fig 30, fig 42, col 35, lines, 20-27, 39-43. He also discloses in transmitting from the first network to the second network the user request and an authorization. See fig 1, fig 30, fig 42, col 5, lines 7-10, 44-47, col 6, lines 34-40, col 35, lines, 20-27, 39-43. However, he specifically fails to disclose in an authorization of payment. Youn et al discloses in an authorization of payment. See the abstract, figure 1, figure 2, figure 3, fig 6, fig 7a-7b, fig 8, col 1, lines 6-11, col 3, lines

37-42, 64-67, col 6, lines 54-60, col 9, lines 26-33. Therefore, it would have been obvious to one of ordinary skill in the art at the time the invention was made to modify Inoue's such that it will use authorization of payment. This is because it would improve Inoue's system to have secured payment system.

5. Claims 5-6, 10, 17 are rejected under 35 U.S.C. 103(a) as being unpatentable over Inoue et al, 6167513 in view of Yoon et al, 6173407 as applied to claim 1 above, and further in view of Mouly.

As per claim 5, Inoue et al, disclose in inputting a user request to a first network which requests that the user be authorized for connection to the packet data network through a second network; See fig 1, fig 30, fig 42, col 35, lines, 20-27, 39-43. He also discloses in transmitting from the first network to the second network the user request and an authorization. See fig 1, fig 30, fig 42, col 5, lines 7-10, 44-47, col 6, lines 34-40, col 35, lines, 20-27, 39-43.

However, he fails specifically to disclose in the authentication information comprises a shared key which may be used to create secure communications between the user and the packet data network. Michel Mouly et al disclose in the authentication information comprises a shared key which may be used to create secure communications between the user and the packet data network. See Page 477-479, 483. Therefore, it would have been obvious to one of ordinary skill in the art at the time the invention was made to modify Inoue's system such that it will use a

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shared key. This is because it would improve Inoue's system to have secured atmosphere between the user and the network.

As per claim 6, Inoue et al disclose in transmitting from the first network to the second network the user request and an authorization. See fig 1, fig 30, fig 42, col 5, lines 7-10, 44-47, col 6, lines 34-40, col 35, lines, 20-27, 39-43. However, he fails specifically to disclose in a subscriber identification module SIM comprising a number n of service 4 units with each service unit comprising a different random access number uniquely identifying each service unit, a signed response SRES and the shared key Kc. Michel Mouly et al disclose in authentication information is a subscriber identification module SIM comprising a number n of service 4 units with each service unit comprising a different random access number uniquely identifying each service unit, 6 a signed response SRES and the shared key Kc. See Page 464-465, 482, 485-486, 488. Therefore, it would have been obvious to one of ordinary skill in the art at the time the invention was made to modify Inoue's system such that it will use a shared key. This is because it would improve Inoue's system to have secured atmosphere between the user and the network. As per claim 10, Inoue et al disclose in transmitting from the first network to the second network the user request and an authorization. See fig 1, fig 30, fig 42, col 5, lines 7-10, 44-47, col 6, lines 34-40, col 35, lines, 20-27, 39-43 However, he fails specifically to disclose in a subscriber identification module SIM comprising the number of service 4 units with each service unit comprising a different random access number uniquely identifying each service unit, a signed response and the shared key Kc. Michel Mouly et al disclose in the second network computes a

subscriber identification module SIM comprising the number of service 4 units with each service unit comprising a different random 5 access number uniquely identifying each service unit, a signed response and the shared key Kc. See Page 464-465, 480, 485-486, 488. Therefore, it would have been obvious to one of ordinary skill in the art at the time the invention was made to modify Inoue's system such that it will use a shared key. This is because it would improve Inoue's system to have secured atmosphere between the user and the network.

As per claim 17, Inoue et al disclose in inputting a user request to a first network which requests that the user be authorized for connection to the packet data network through a second network;

that the user be authorized for connection to the packet data network through a second network; See fig 1, fig 30, fig 42, col 35, lines, 20-27, 39-43. He also discloses in transmitting from the first network to the second network the user request and an authorization. See fig 1, fig 30, fig 42, col 5, lines 7-10, 44-47, col 6, lines 34-40, col 35, lines, 20-27, 39-43. However, he specifically fails to disclose in an authorization of payment. Yoon et al discloses in an authorization of payment. See the abstract, figure 1, figure 2, figure 3, fig 6, fig 7a-7b, fig 8, col 1, lines 6-11, col 3, lines 37-42, 64-67, col 6, lines 54-60, col 9, lines 26-33. Therefore, it would have been obvious to one of ordinary skill in the art at the time the invention was made to modify Inoue's such that it will use authorization of payment. This is because it would improve Inoue's system to have secured payment system.

6. Claims 11-12 are rejected under 35 U.S.C. 103(a) as being unpatentable over Inoue et al, 6167513 in view of Yoon et al, 6173407 and Chan, 5659541 as applied to claim 4 above, and further in view of Mouly.

As per claim 11, Inoue et al, disclose in inputting a user request to a first network which requests that the user be authorized for connection to the packet data network through a second network; See fig 1, fig 30, fig 42, col 35, lines, 20-27, 39-43. He also discloses in transmitting from the first network to the second network the user request and an authorization. See fig 1, fig 30, fig 42, col 5, lines 7-10, 44-47, col 6, lines 34-40, col 35, lines, 20-27, 39-43.

However, he fails specifically to disclose in in the authentication information comprises a shared key which may be used to create secure communications between the user and the packet data network. Michel Mouly et al disclose in the authentication information comprises a shared key which may be used to create secure communications between the user and the packet data network. See Page 477-479, 481, 483. Therefore, it would have been obvious to one of ordinary skill in the art at the time the invention was made to modify Inoue's system such that it will use a shared key. This is because it would improve Inoue's system to have secured atmosphere between the user and the network.

As per claim 12, Inoue et al disclose in transmitting from the first network to the second network the user request and an authorization. See fig 1, fig 30, fig 42, col 5, lines 7-10, 44-47, col 6, lines 34-40, col 35, lines, 20-27, 39-43. However, he fails specifically to disclose in a subscriber identification module SIM comprising the number of service 4 units with each service unit comprising a different random 5 access number uniquely identifying each service unit, a signed response and the shared key Kc. Michel Mouly et al disclose in the second network computes a subscriber identification module SIM comprising the number of service 4 units with each service

unit comprising a different random access number uniquely identifying each service unit, a signed response and the shared key Kc. See Page 464-465, 480, 485-486, 488. Therefore, it would have been obvious to one of ordinary skill in the art at the time the invention was made to modify Inoue's system such that it will use a shared key. This is because it would improve Inoue's system to have secured atmosphere between the user and the network.

As per claim 13, Michel Mouly et al disclose in the inputting of the user request to the first network, the transmitting of the user request see section 1.3.1 on Page 47, Page 48, Page 51, lines 1-7, fig 1.5 on Page 54, last paragraph on Page 55 and an authorization of payment to the second network and the transmitting of the authentication information from the second network to the first network and to the user are by secure communications. see section 1.3.1 on Page 47, fig 1.5 on Page 54, Page 55, lines 1-6, fig 9.3 on Page 575

7. Claims 18 is rejected under 35 U.S.C. 103(a) as being unpatentable over Inoue et al, 6167513 in view of Yoon et al, 6173407 and Chan 5659541 as applied to claim 3 above, and further in view of Tsubakiyama et al, 5345506.

As per claim 18, Inoue et al disclose in inputting a user request to a first network which requests that the user be authorized for connection to the packet data network through a second network; See fig 1, fig 30, fig 42, col 35, lines, 20-27, 39-43. He also discloses in transmitting from the first network to the second network the user request and an authorization. See fig 1, fig 30, fig 42, col

5, lines 7-10, 44-47, col 6, lines 34-40, col 35, lines, 20-27, 39-43. However, he specifically fails to disclose in an authentication to obtain connection to the packet data network has been obtained, the user transmits to the second network at least one request for consumption of at least one service unit comprising a random number RAND and a signed response SRES. Michel Mouly et al disclose in after the user is informed that authentication to obtain connection to the packet data network has been obtained, the user transmits to the second network at least one request for consumption of at least one service unit comprising a random number RAND and a signed response SRES; see Pages 464-465, 478-479, fig 7.7, 485-486, 488. Therefore, it would have been obvious to one of ordinary skill in the art at the time the invention was made to modify Inoue's system to have a random number RAND and a signed response SRES. This is because it would improve Inoue's system to validate network pass securely.

He also fails to discloses to determine if a match exists; and if a match exists, the second network permits data packets to pass through the second network between the user and the packet network. Tsubakiyama et al, 5345506 disclose to determine if a match exists; and if a match exists, the second network permits data packets to pass through the second network between the user and the packet network. See the abstract, col 1, lines 36-45, col 4, lines 1-22, col 5, lines 1-2, 23-33. Therefore, it would have been obvious to one of ordinary skill in the art at the time the invention was made to modify Inoue's system such that it will use SRES to determine if a match exists. This is because it would improve Inoue's system to validate network pass securely.

As per claim 19, Inoue et al discloses in the second network debits from a stored value of service

units which have been granted to the user a number of consumed service units which are identified

in each request for consumption of at least one service until the number of consumed service units

equals the number of granted service units. See fig 1, fig 30, fig 42, fig 45, col 5, lines 7-10, 44-

47, col 6, lines 34-40, col 35, lines, 20-27, 39-43.

As per claim 20, Inoue et al discloses in each unused service unit is stored in the second network

in a hash table and each used service unit is stored in the second network in a hash table. See col

48, lines 43-47

Conclusion

8. The prior art made of record and not relied upon is considered pertinent to applicant's

disclosure.

A. Fontenot US patent 4,616,359 Oct 7, 1986. Adaptive Preferential Flow Control for Packet

Switching system.

B. Murto US patent 5991407 Oct 17, 1995. Subscriber Authentication in a Mobile

communications System.

C. Chau et al, US patent 6278705 April 8, 1997. Integrated Architecture to support a Singe system Image Across Multiple Network Access Servers.

Any inquiry concerning this communication or earlier communications from the examiner should be directed to Mussie Tesfamariam whose telephone number is (703)305-1393. The examiner can normally be reached on Monday - Friday from 8:00 a.m. to 5:00 p.m. If attempts to reach the examiner by telephone are unsuccessful, the examiner's supervisor, James Trammell can be reached at (703) 305-9768.

Any response to this office action should be mailed to:

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Hand-delivered responses should be brought to Crystal park II, 2121 Crystal Drive Arlington, Virginia, (Receptionist).

Mussie Tesfamariam

September 4, 2001

JAMES P. TRAMPELE SUPERVISORY PATENT EXAMINER TECHNOLOGY CENTER 2100